



Broadband Business Planning, Operations and Roadmap

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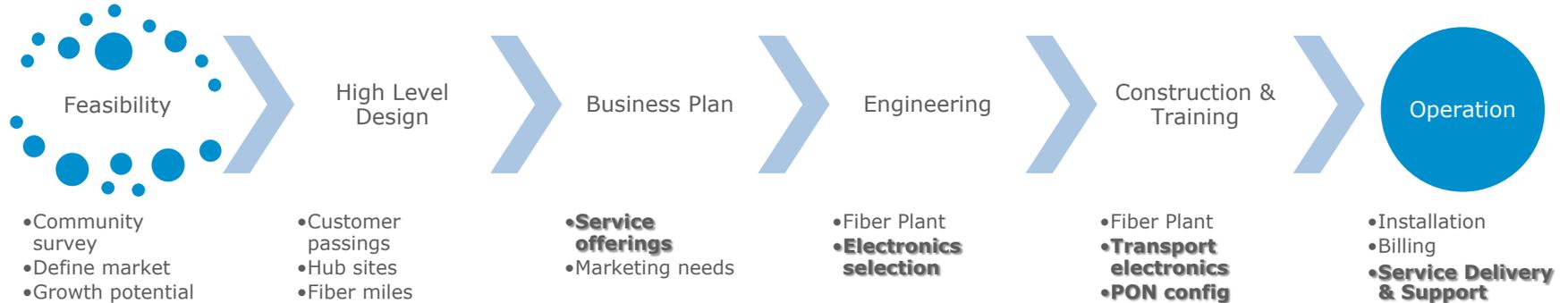
Agenda

- Broadband Grant Business Steps
- Portfolio and roadmap
- Smart Agriculture and IOT

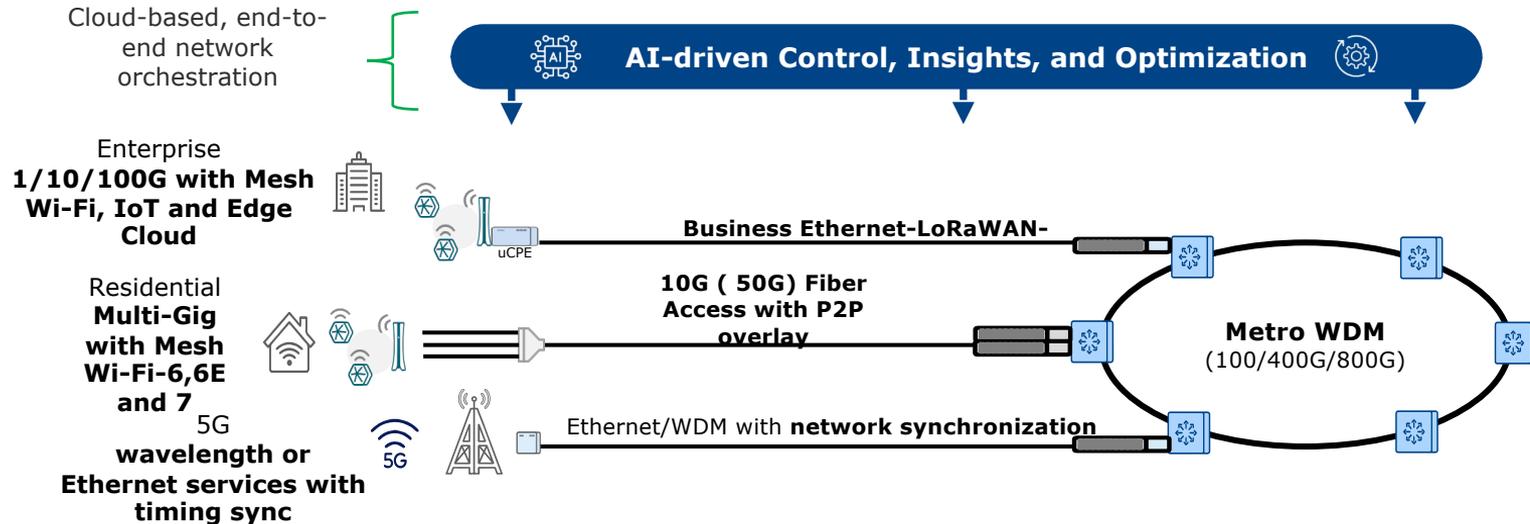


UNLOCKING THE FUTURE NETWORK

High Level Broadband Business Steps



Combined Fiber Networking Portfolio



Global leader in AI-driven fiber networking solutions from metro core to customer premise

PATENTED MULTIFUNCTION, CHEMICAL SENSORS

LOW-COST, RUGGEDIZED

Before Teralytic

- Flexibility & Functionality: Previous sensors lacked the capability to measure key soil nutrients including nitrates, phosphates, and potassium (NPK). Limited flexibility to expand to other nutrients.

- Accuracy & Selectivity: Many existing attempts at measuring soil NPK suffered from sensor drift and selectivity issues.

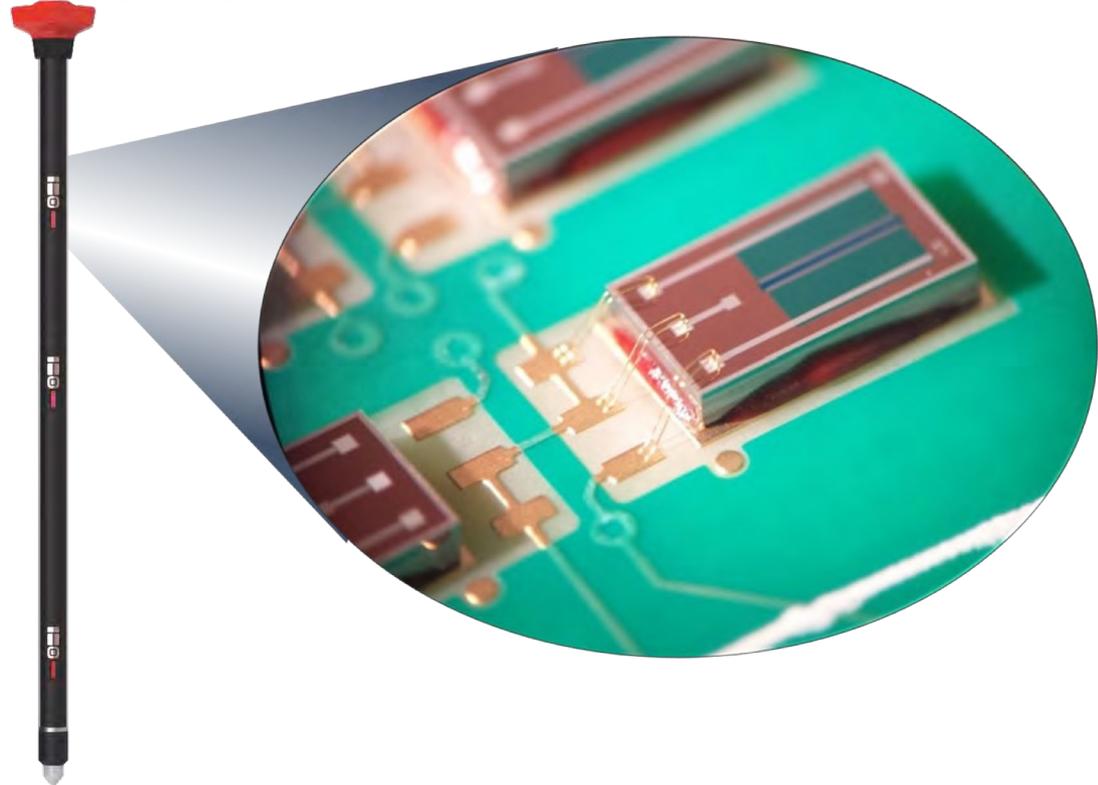
- Durability & Lifetime: Existing sensors were prone to failure due to harsh agricultural environments.

Reliable reference electrodes didn't exist or have a form factor that would work for agriculture.

- Costs: Existing solutions were \$2k-10k+;

After Teralytic

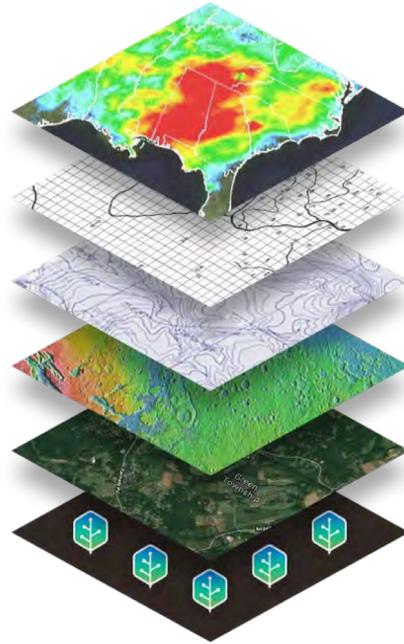
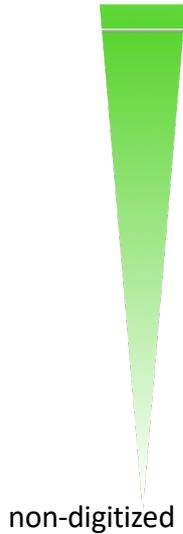
- Two years of R&D with IP 100% owned and created by Teralytic (patent pending), solved cost, durability, flexibility and accuracy issues.



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WITHIN AGRICULTURE, SOIL IS LEAST DIGITIZED LAYER

digitized



Satellite, Drone Imagery

Weather, Microclimate

Mapping, Terrain, Elevation

Yield, Tractor

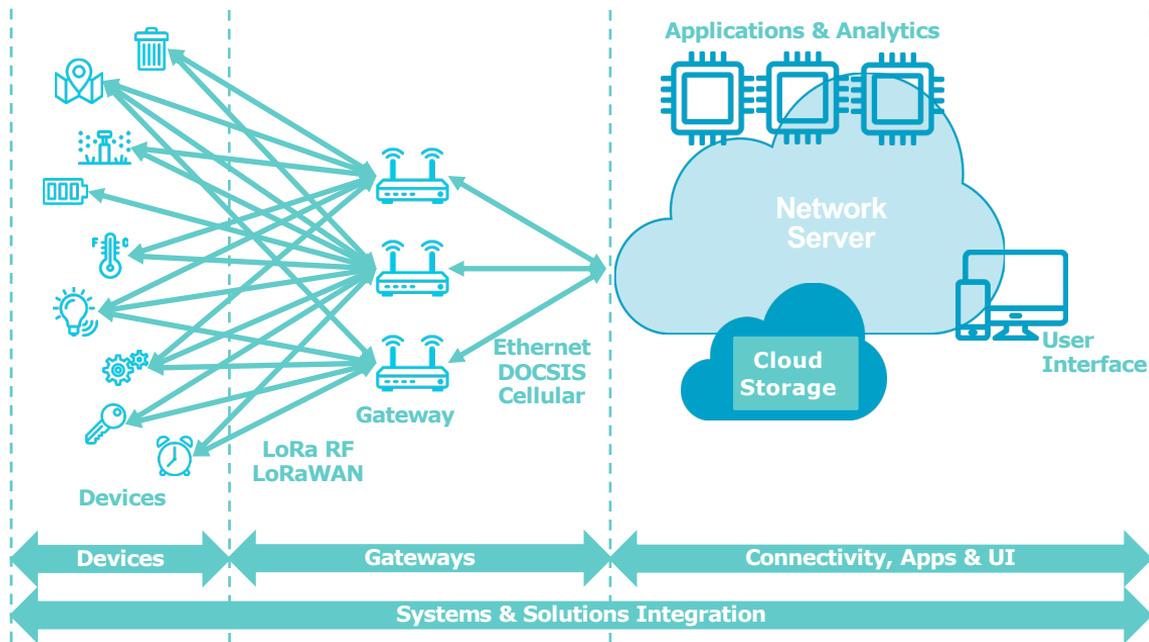
Soil and Terrain Data

The End Game

E2E IoT Solutions

LoRaWAN IOT Ecosystem

- Devices
 - Sensors
 - Controllers
 - Smart Devices
- Gateways
 - Indoor
 - Outdoor
- Connectivity
 - Network Servers
- Applications & UI
 - Network Server
 - Cloud Storage
 - Applications & Analytics
 - User Interface
- Systems & Solutions Integration



General Business

General Business

Adtran

Thank you!

UNLOCKING THE FUTURE NETWORK

Adtran at-a-glance

- Founded in 1985 (Nasdaq: ADTN)
- Headquartered in Huntsville, Alabama
- Regional U.S. and European manufacturing, engineering, and support
- \$563M Revenue (2021)
- 1335 Employees
- Broadband access market focus
- Major market adoption in North America, Europe and Australia

